

where the [(I)] symbols in the formula have the following meanings:

Ring A:

- (1) an aryl (aromatic hydrocarbon) group having 6 to 14 carbon atoms
- ~~(2) a heteroaryl group having 1 to 4 hetero atoms selected from the group consisting of an oxygen atom, a nitrogen atom and a sulfur atom~~
- (3) a cycloalkyl group having 3 to 8 carbon atoms
- ~~(4) a cycloalkenyl group having 3 to 8 carbon atoms~~
- ~~(5) a 5 to 7 membered saturated heterocyclic group;~~

wherein groups (1) to (5) above may be unsubstituted or substituted by one or more substituents selected from the group consisting of a halogen atom, a hydroxyl group, a lower alkoxy group, a carboxyl group, a lower alkoxy carbonyl group, a lower acyl group, a mercapto group, a lower alkylthio group, a sulfonyl group, a lower alkylsulfonyl group, a sulfinyl group, a lower alkylsulfinyl group, a sulfonamido group, a lower alkanesulfonamido group, a carbamoyl group, a thiocarbamoyl group, a mono- or di-lower alkylcarbamoyl group, a nitro group, a cyano group, an amino group, a mono- or di-lower alkylamino group, a methylenedioxy group, an ethylenedioxy group and a lower alkyl group which may be substituted by a halogen atom, a hydroxyl group, a lower alkoxy group, an amino group or mono- or di-lower alkylamino group

[an aryl group, a cycloalkyl group, a cycloalkenyl group, a heteroaryl group having 1 to 4 hetero atoms selected from the group consisting of an oxygen atom, a nitrogen atoms and a sulfur atom or a 5- to 7-membered saturated heterocyclic group, wherein said ring may be substituted by an optional substituent;]

X: a single bond or a methylene group;

R: a halogen atom, a hydroxyl group, a lower alkoxy group, a carboxyl group, a lower alkoxy carbonyl group, a lower acyl group, a mercapto group, a lower alkylthio group, a sulfonyl group, a lower alkylsulfonyl group, a sulfinyl group, a lower alkylsulfinyl group, a sulfonamido group, a lower alkanesulfonamido group, a carbamoyl group, a thiocarbamoyl group, a mono- or di-lower alkylcarbamoyl group, a nitro group, a cyano group, an amino group, a mono- or di-lower alkylamino group, a ~~methylenedioxy~~ <sup>methylenedioxy</sup> group, an ethylenedioxy group or a lower alkyl group which may be substituted by a halogen atom, a hydroxyl group, a lower alkoxy group, an amino group or a mono- or di-lower alkylamino group;

ℓ: 0 or 1;

m: 0 or an integer of 1 to 3, and

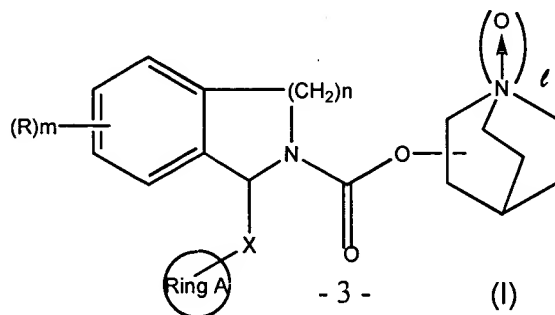
n: an integer of 1 or 2],

a salt thereof, an N-oxide thereof, or a quaternary ammonium salt thereof.

Kindly cancel without prejudice claim 2.

Claim 8, next to the last line, delete "and optically active substances thereof".

(Amended) A pharmaceutical composition which comprises a quinuclidine derivative represented by the following formula (I):



where the [( )] symbols in the formula have the following meanings:

*CJ e*  
*Chy*  
*6*  
*29*

Ring A: (1) an aryl (aromatic hydrocarbon) group having 6 to 14 carbon atoms  
~~(2) a heteroaryl group having 1 to 4 hetero atoms selected from the group consisting of an oxygen atom, a nitrogen atom and a sulfur atom~~  
(3) a cycloalkyl group having 3 to 8 carbon atoms  
(4) a cycloalkenyl group having 3 to 8 carbon atoms  
(5) a 5- to 7-membered saturated heterocyclic group;  
wherein groups (1) to (5) above may be unsubstituted or substituted by one or more substituents selected from the group consisting of a halogen atom, a hydroxyl group, a lower alkoxy group, a carboxyl group, a lower alkoxycarbonyl group, a lower acyl group, a mercapto group, a lower alkylthio group, a sulfonyl group, a lower alkylsulfonyl group, a sulfinyl group, a lower alkylsulfinyl group, a sulfonamido group, a lower alkanesulfonamido group, a carbamoyl group, a thiocarbamoyl group, a mono- or di-lower alkylcarbamoyl group, a nitro group, a cyano group, an amino group, a mono- or di-lower alkylamino group, a methylenedioxy group, an ethylenedioxy group and a lower alkyl group which may be substituted by a halogen atom, a hydroxyl group, a lower alkoxy group, an amino group or mono- or di-lower alkylamino group  
[an aryl group, a cycloalkyl group, a cycloalkenyl group, a heteroaryl group having 1 to 4 hetero atoms selected from the group consisting of an oxygen atom, a nitrogen atoms and a sulfur atom or a 5- to 7-membered saturated heterocyclic group, wherein said ring may be substituted by an optional substituent;]

X: a single bond or a methylene group;

R: a halogen atom, a hydroxyl group, a lower alkoxy group, a carboxyl group, a lower alkoxycarbonyl group, a lower acyl group, a mercapto group, a lower alkylthio group, a sulfonyl group, a lower alkylsulfonyl group, a sulfinyl group, a lower alkylsulfinyl group, a sulfonamido group, a lower alkanesulfonamido group, a carbamoyl group, a thiocarbamoyl group, a mono- or di-lower alkylcarbamoyl group, a nitro group, a cyano

AMENDMENT UNDER 37 C.F.R. § 1.111  
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*CS* *10*  
*Amended*  
group, an amino group, a mono- or di-lower alkylamino group, a ~~methylenedioxy~~ *methylenedioxy*  
group, an ethylenedioxy group or a lower alkyl group which may be substituted by a  
halogen atom, a hydroxyl group, a lower alkoxy group, an amino group or a mono- or di-  
lower alkylamino group;

*l:* 0 or 1;

*m:* 0 or an integer of 1 to 3, and

*n:* an integer of 1 or 2, or

a salt thereof, an N-oxide thereof, or a quaternary ammonium salt thereof,  
and a pharmaceutically acceptable carrier.

Please cancel without prejudice claims 12 and 13.

Kindly add following new claim 14.

*CS*  
--14. A method of treating muscarine M<sub>3</sub>-related diseases comprising administering a  
therapeutically effective amount of a quinuclidine derivative or a salt thereof, an N-oxide or a  
quaternary ammonium salt as claimed in claim 1 as a muscarinic M<sub>3</sub> receptor antagonist to a  
patient in need of the same.---

REMARKS

Claims 1, 3-9 and 14 are all the claims pending in the application. The amended claims  
and newly added claim 14 are supported by the disclosure. Hence, entry is respectfully  
requested.